ORDER NO. AD9507191C2

Service Manual

FG SERVO Automtic Turntable System

T4P

Automatic Turntable System

SL-BD22D

Colour

(K) · · · · Black Type

Area

Suffix for Model No.	Area	Colour
(E)	Eurpoe.	(K)
(EB)	Geart Britain.	
(EG)	Germany and Italy.	

T4P is the standard mark for plug-in-connector system. Products carrying this mark are interchangeable and compatible with each other.

SPECIFICATIONS

■ TURNTABLE SECTION

Type: Automatic turntable
Features: Auto-return
Auto-stop
Drive method: Belt drive
Motor: DC motor
Drive control method: FG servo control
Turntable platter: Aluminum die-cast
Diameter 312mm
Turntable speeds: 33-1/3 r/min and 45 r/min
Wow and flutter: 0.045% WRMS (JIS C5521)
±0.06% Weight zero to peak
(IEC 98A weighted)
Rumble: −70 dB DIN-B (IEC 98A weighted)

■ TONEARM SECTION

Type: Static-balanced straight tonearm
Plug-in-connector cartridge system
Overhang: 15 mm
Effective length: 230 mm
Tracking error angle: Within 2°32' at outer groove of 30 cm disc
Within 0°32' at inner groove of 30 cm disc
Applicable cartridge weight: 6 g

■ CARTRIDGE SECTION

Type: Moving magnet stereo cartridge
Frequency response: 20 Hz ~ 20 kHz
Output voltage: 2.5 mV at 1 kHz, 5 cm/s. zero to peak lateral velocity
Channel separation: 22 dB at 1 kHz
Channel balance: Within 2 dB at 1 kHz
Recommended load impedance: 47 kΩ ~ 100 kΩ
Compliance (dynamic): 8×10^{-6} cm/dyne at 100 Hz
Stylus pressure range: 1.25±0.25g
Weight: 6 g (cartridge only)
Replacement stylus: EPS-34CS

■ GENERAL

Power supply: For (EB) area:
AC 230V ~ 240V, 50/60 Hz
For (E, EG) area:
AC 230V, 50/60 Hz
Power consumption: 3 W
Dimensions:
(W×H×D) 430×93×375 mm
Maximum height when dust cover is open:
430×360×410 mm
Weight: 3.6 kg (7.9 lb.)

Specifications are subject to change without notice.
Weight and dimensions are approximate.

⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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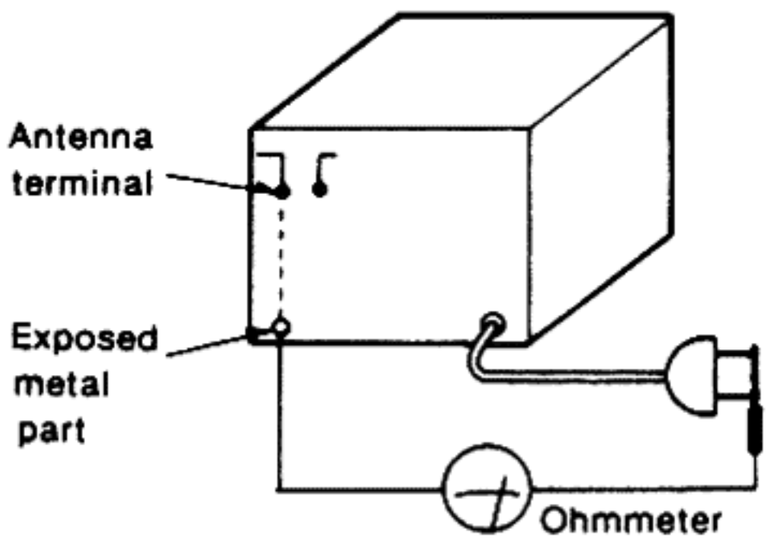
■ SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

• INSULATION RESISTANCE TEST

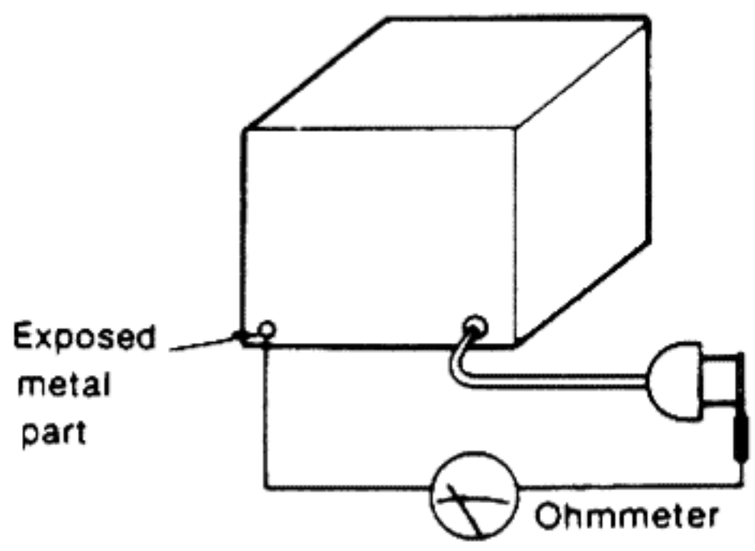
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = 3MΩ—5.2MΩ



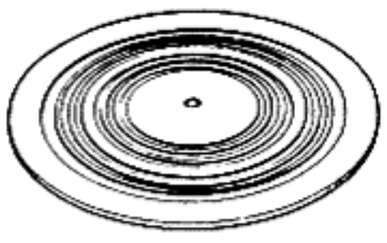
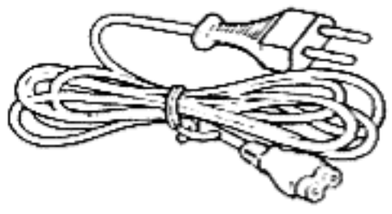
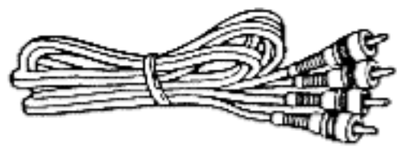
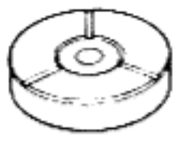
(Fig. B)

Resistance = Approx ∞

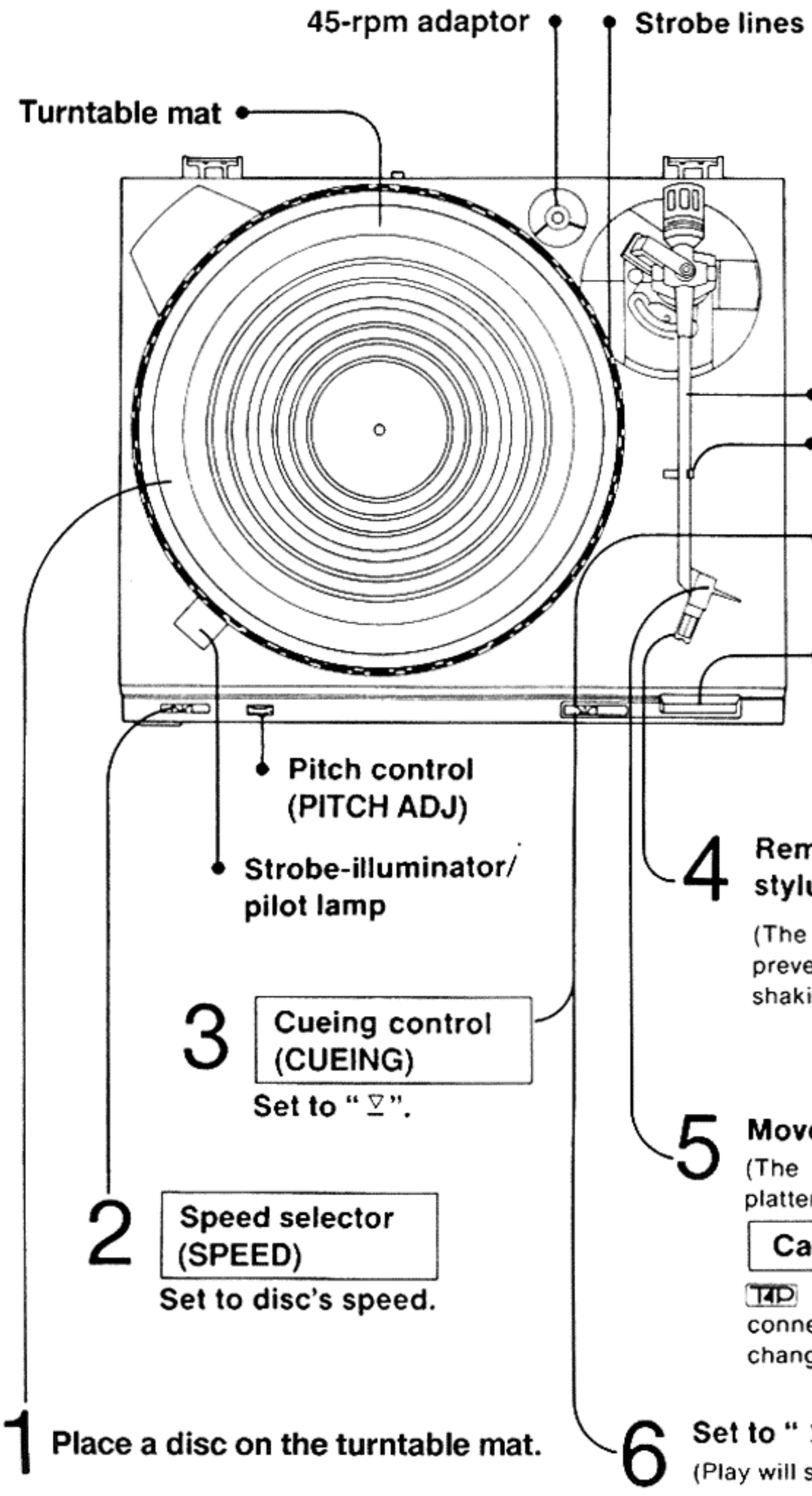
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ ACCESSORIES

Note: Configuration of AC power supply cord differs according to area.

Turntable mat (1) (SFTGB93M02EM)	AC power supply cord (1) (RJA0019-2K)...(E, EG) (RJA0733) .....(EB)	Stereo connection cable (1) (SFDHBD2N01)	Ground wire (1) (SJPB7M)	45-rpm adaptor (1) (SFWE212-01)
				

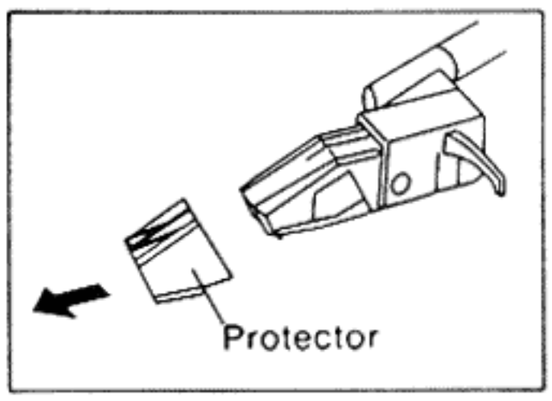
■ LOCATION OF CONTROLS


45-rpm adaptor
Strobe lines
Turntable mat
Tonearm
Arm rest
Set to " ▽ " to stop the play temporarily.
Set to " ▽ " to resume the play.
Stop switch (STOP)
Press to stop the play.
Pitch control (PITCH ADJ)
Strobe-illuminator/ pilot lamp
3 Cueing control (CUEING)
Set to " ▽ ".
2 Speed selector (SPEED)
Set to disc's speed.
1 Place a disc on the turntable mat.
4 Remove the stylus protector.
(The tape on side of cartridge prevents the stylus assembly from shaking loose during shipment.)
5 Move to the desired position.
(The strobe-illuminator/pilot lamp will light and the platter will start turning.)
Cartridge
T4P is the standard mark for the "P-mount" plug-in connector system. Products carrying this mark are interchangeable and compatible with each other.
6 Set to " ▽ ".
(Play will start.)

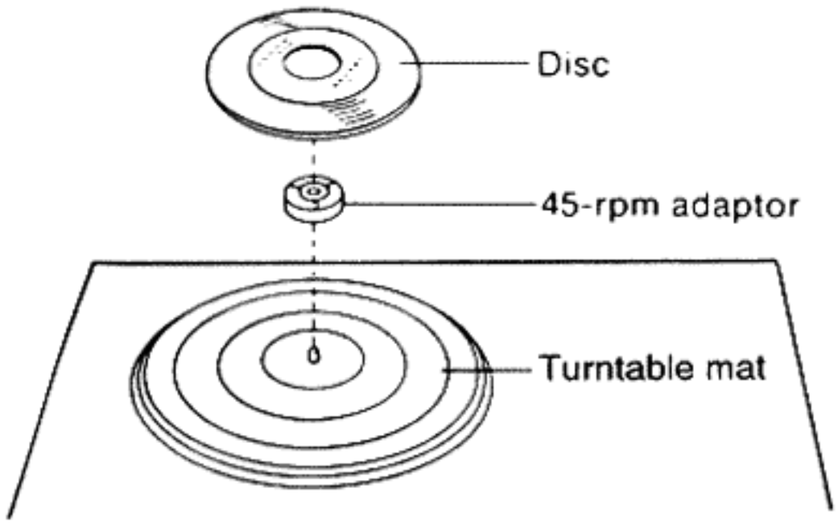
This unit's strobe illuminator operates at the AC line frequency which generally has a 0.2% fluctuation.
This fluctuation, when present, may make the strobe pattern appear to change. However, actual platter speed does not change, because the DC motor is not affected by AC power line frequency.

Notes:

- Do not try to clean the dust cover while a disc is playing, because static electricity might cause the tonearm to rise.
- The unit is in the standby condition when the AC power supply cord is connected.
  The primary circuit is always "live" as long as the power cord is connected to an electrical outlet.



■ For a 17-cm (7") (large center hole) disc

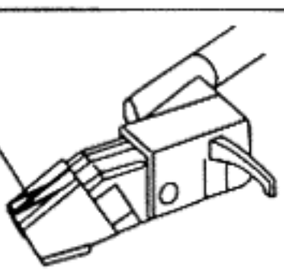


■ When play ends

1. The tonearm will automatically return to the arm rest (the automatic return feature).
2. Rotation will stop.

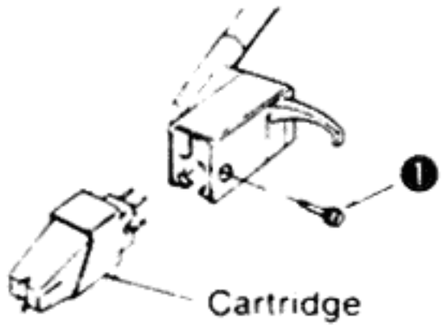
After use

Attach the stylus protector.

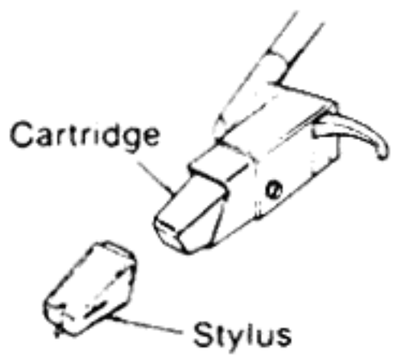


■ DISASSEMBLY INSTRUCTIONS

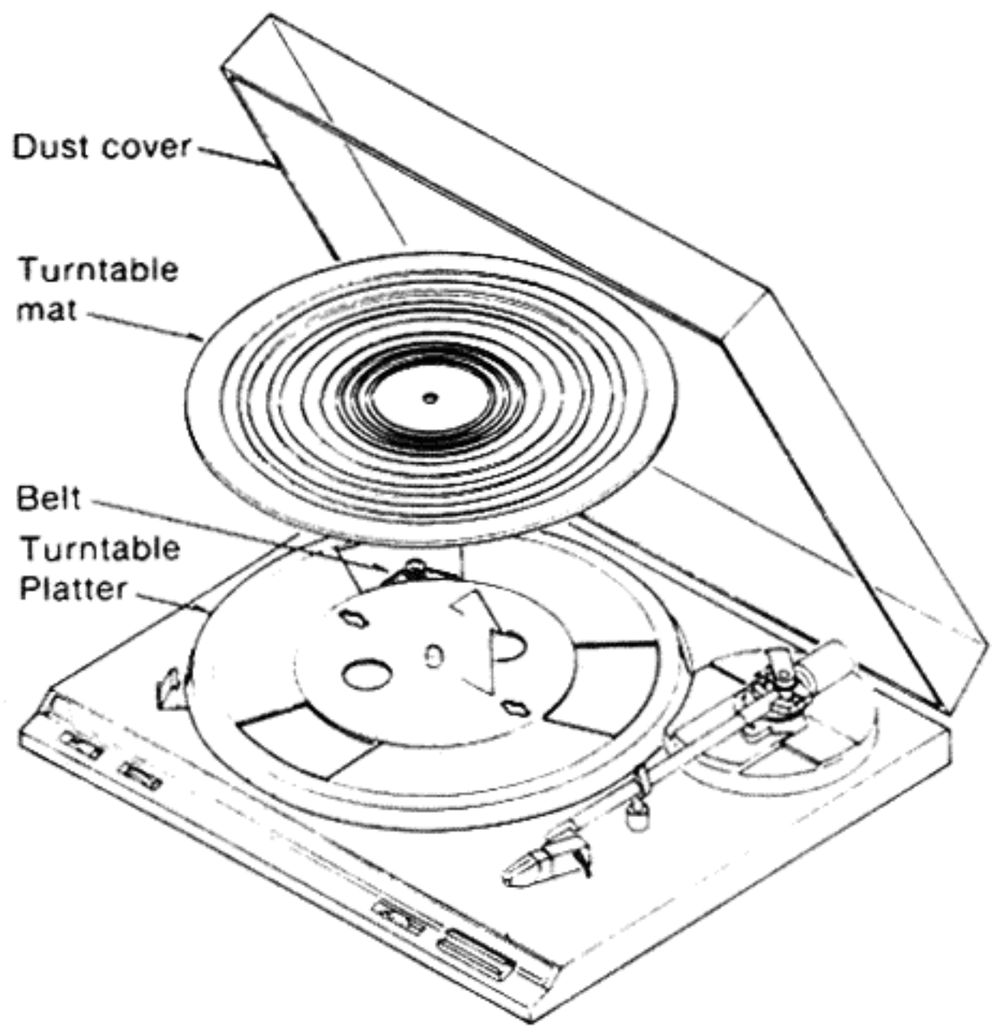
Ref. No 1	How to remove the cartridge
Procedure 1	1. Remove the setscrew ❶. 2. Pull out the cartridge, taking care that your hand does not touch the stylus tip.



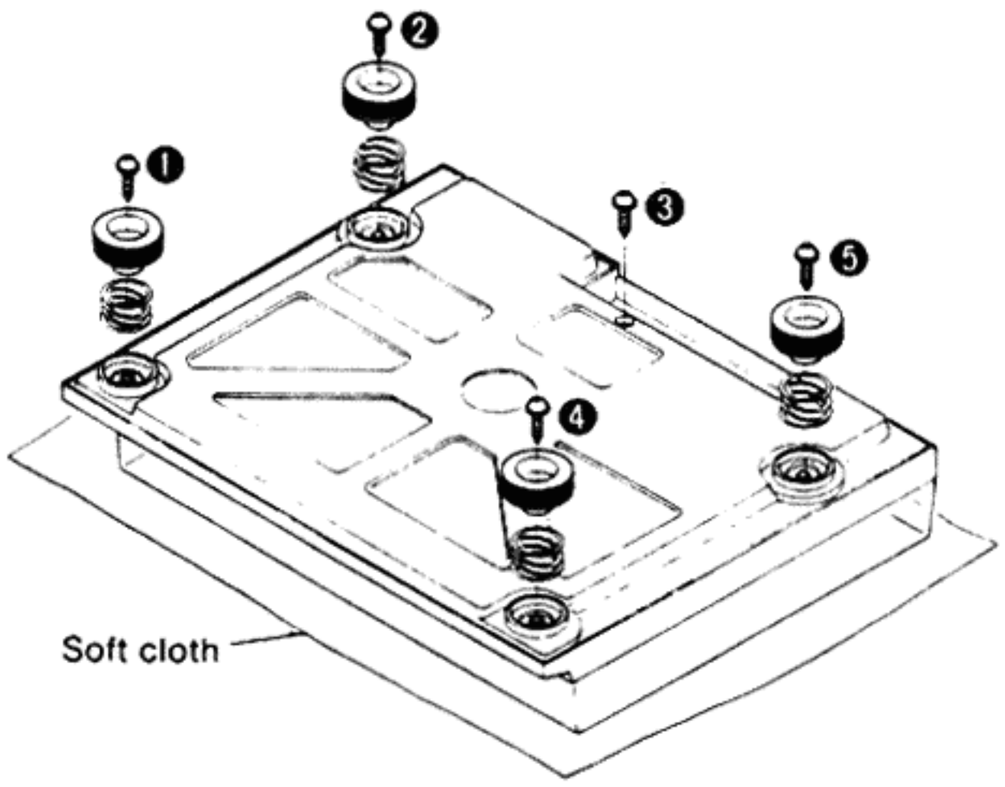
Ref. No 2	How to remove the stylus
Procedure 2	• Pull out the stylus, taking care not to touch the stylus tip.



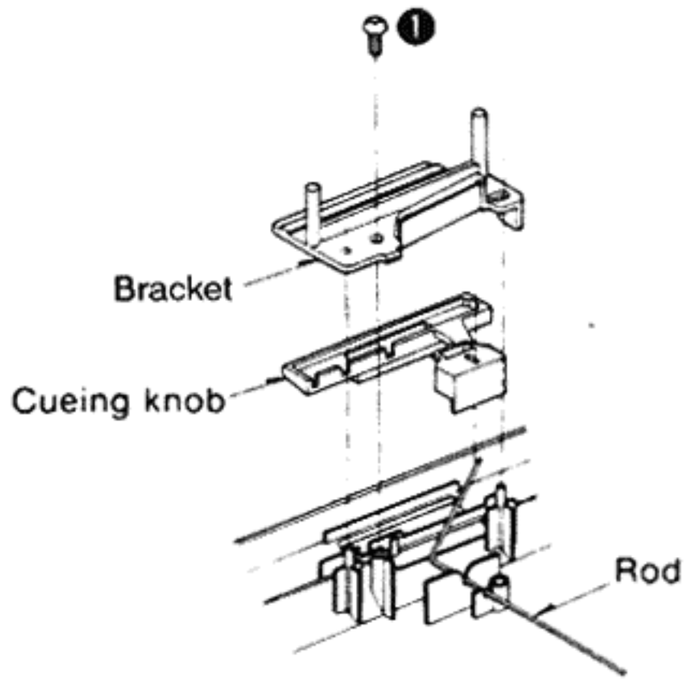
Ref. No 3	How to remove the turntable platter
Procedure 3	1. Open the dust cover and remove the turntable mat. 2. Remove the belt. 3. Lift up the turntable platter.



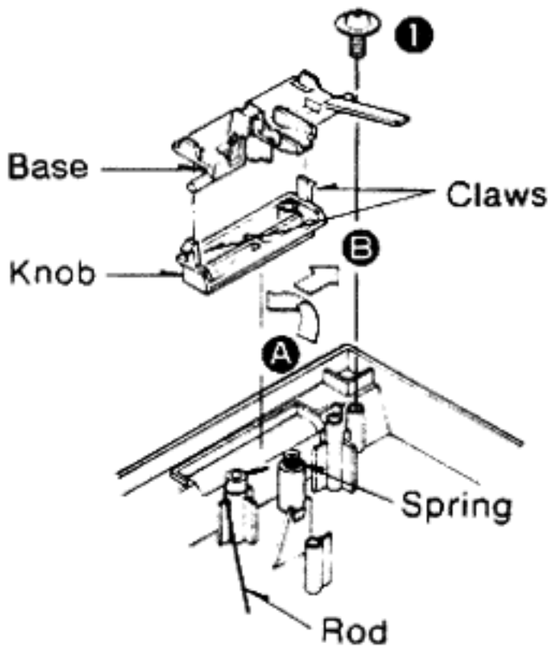
Ref. No 4	How to remove the bottom board
Procedure 3 ▸ 4	1. Turn over the unit on a soft cloth. 2. Remove the 5 setscrews (❶ ~ ❺).



Ref. No 5	How to remove the cueing knob
Procedure 3 ▸ 4 ▸ 5	• Remove the setscrew ❶.

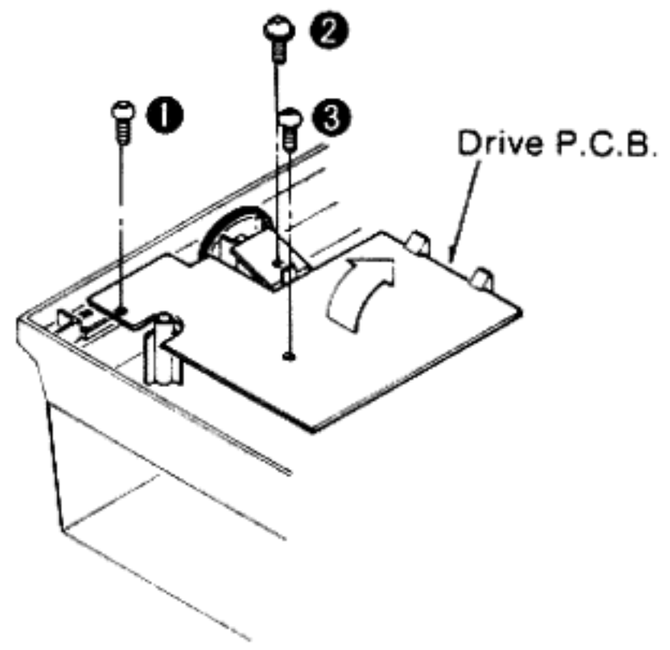


Ref. No 6	How to remove the stop switch knob
Procedure 3 ➧ 4 ➧ 6	1. Remove the setscrew ❶. 2. Remove the base (with knob) in the direction of the arrows (Ⓐ, Ⓑ). 3. Release the 2 claws.

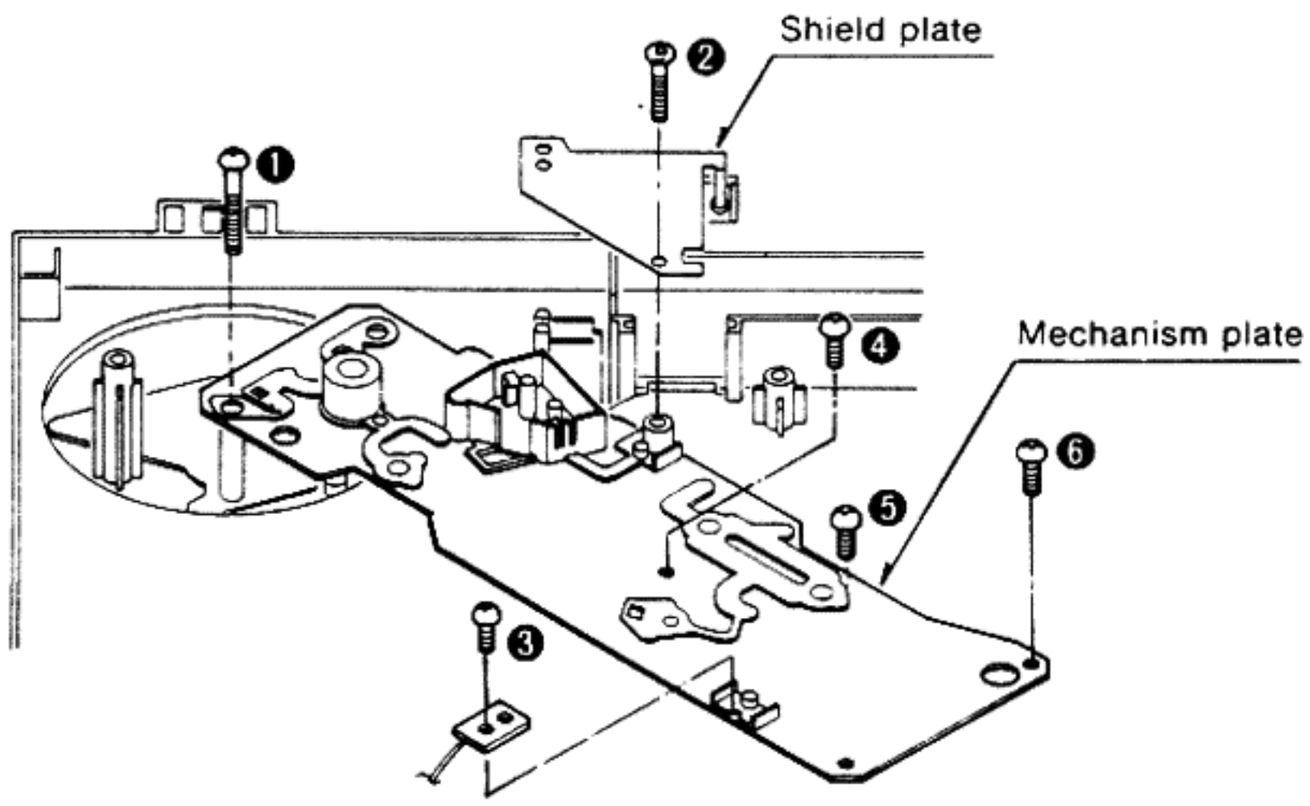


Note:
When attaching the stop knob, do not forget to attach the spring.

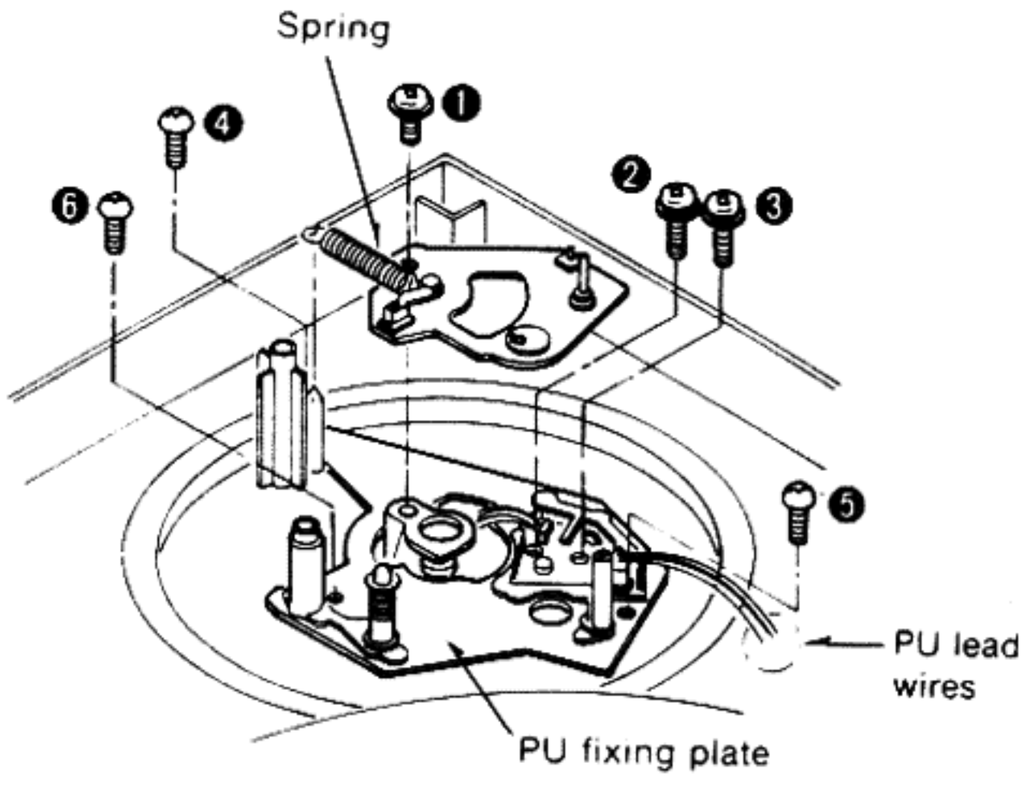
Ref. No 7	How to remove the drive P.C.B.
Procedure 3 ➧ 4 ➧ 7	1. Remove the 3 setscrews (❶ ~ ❸). 2. Remove the drive P.C.B. in the direction of the arrow.



Ref. No 8	How to remove the mechanism plate
Procedure 3 ➧ 4 ➧ 8	1. Remove the 6 setscrews (❶ ~ ❻). 2. Lift up the mechanism plate.

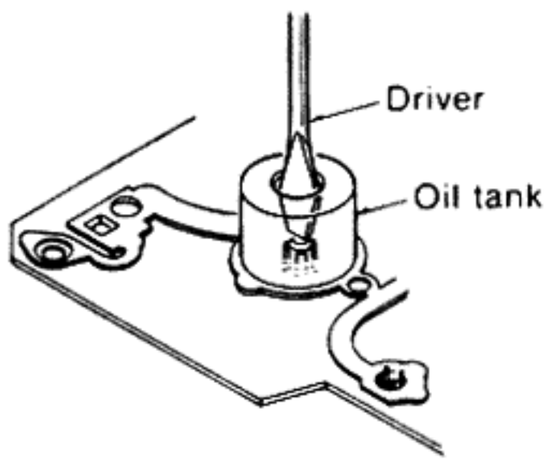


Ref. No 9	How to remove the tonearm and PU fixing plate
Procedure 3➧4➧8➧9	1. Unsolder the 5 PU lead wires from the phono terminal. 2. Remove the setscrew ❶ and spring. 3. To remove the tonearm, remove the 2 setscrews (❷, ❸). 4. To remove the PU fixing plate, remove the 3 setscrews (❹, ❺, ❻). * PU lead wiring method White .....L channel (+) terminal Blue.....L channel (−) terminal Red .....R channel (+) terminal Green .....R channel (−) terminal Black.....Ground terminal



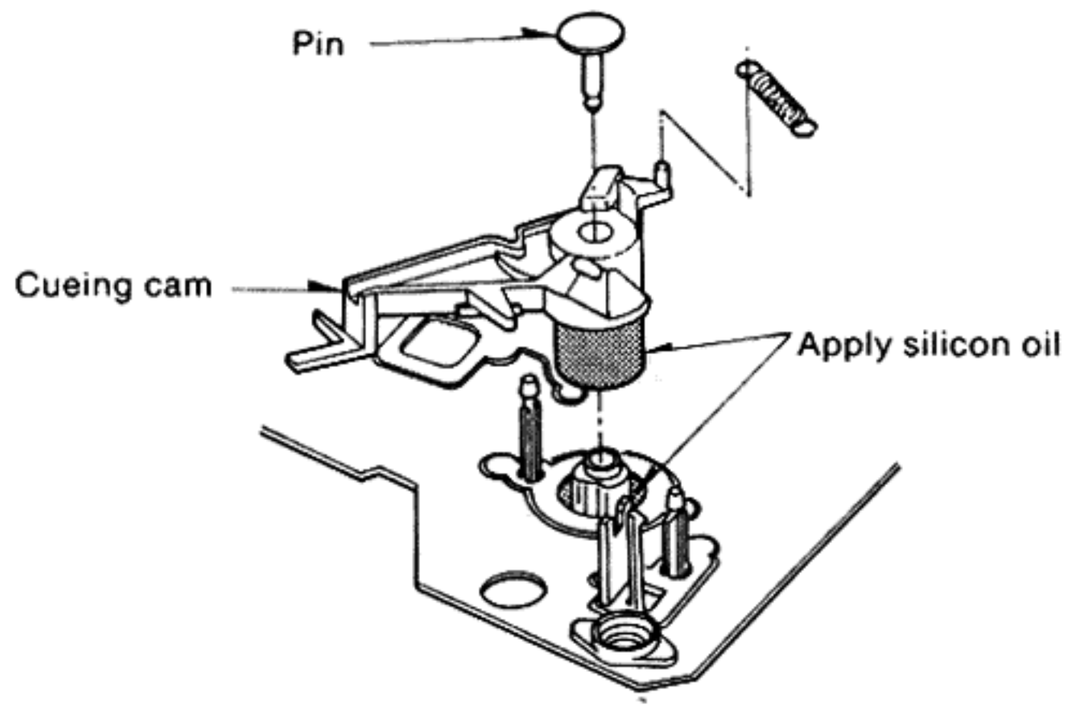
Ref. No 10	How to remove the cueing cam
Procedure 3➧4➧8➧10	

1. Push the pin with a driver.
2. Remove the pin and spring.
3. Remove the cueing cam.



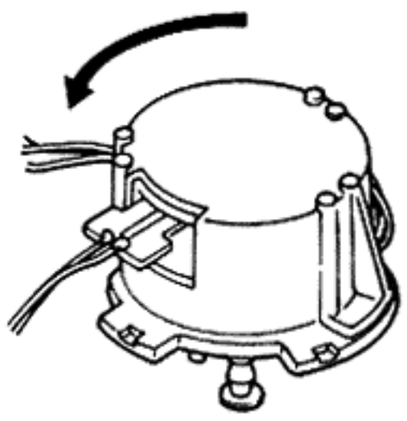
Note:
If the cueing time of the tonearm becomes too short, or if the cueing cam is replaced, apply silicon oil (Part No. SZZ0L11) according to the following procedure.

1. Remove the cueing cam.
2. Apply silicon oil to the cueing cam and oil tank.

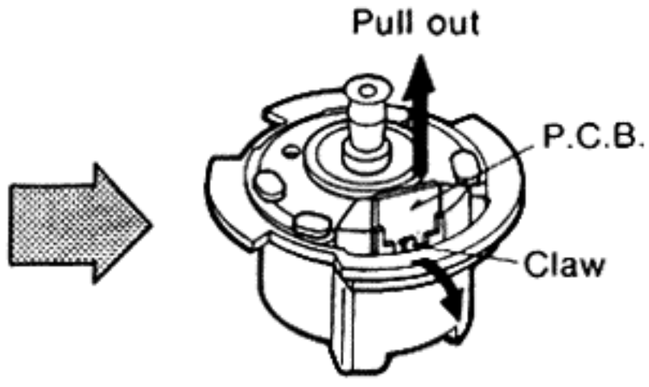


Ref. No 11	How to remove the magnetic resistor element
Procedure 3➧4➧11	

•Remove the motor assembly in the direction of the arrow.

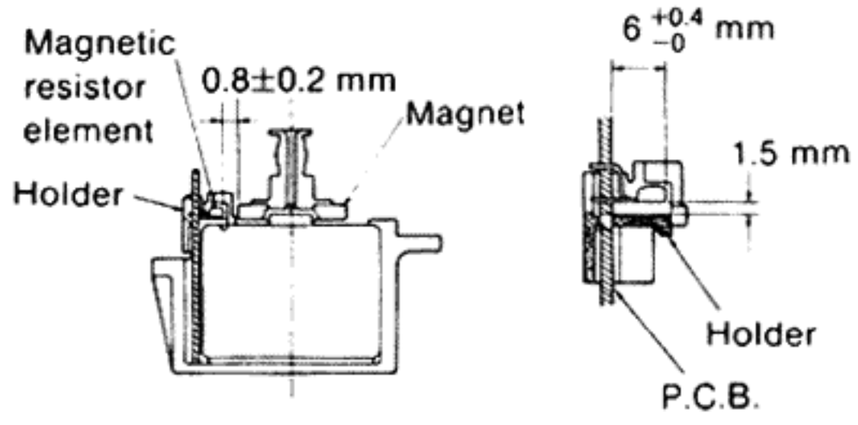


1. Unsolder the 3 lead wires from the magnetic resistor P.C.B.
2. Release the claw and pull out the P.C.B.
3. Unsolder the 3 terminals of the magnetic resistor element.

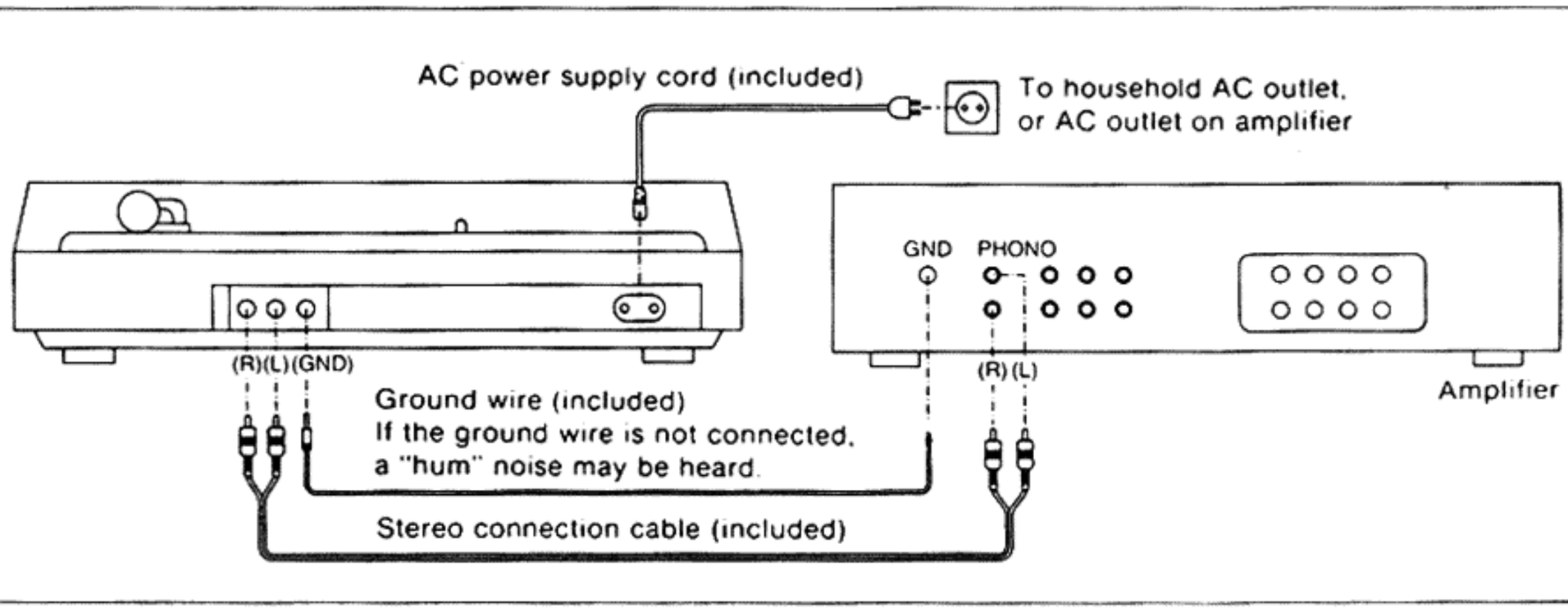


Note:
If the magnetic resistor element has been replaced, observe the following mounting precaution.

- The magnetic resistor element is supplied with the center lead bent. Be sure the seat the bent lead flush to the P.C.B.
- This will ensure the proper clearance (0.8±0.2 mm) between the magnet and the magnetic resistor element as shown below.



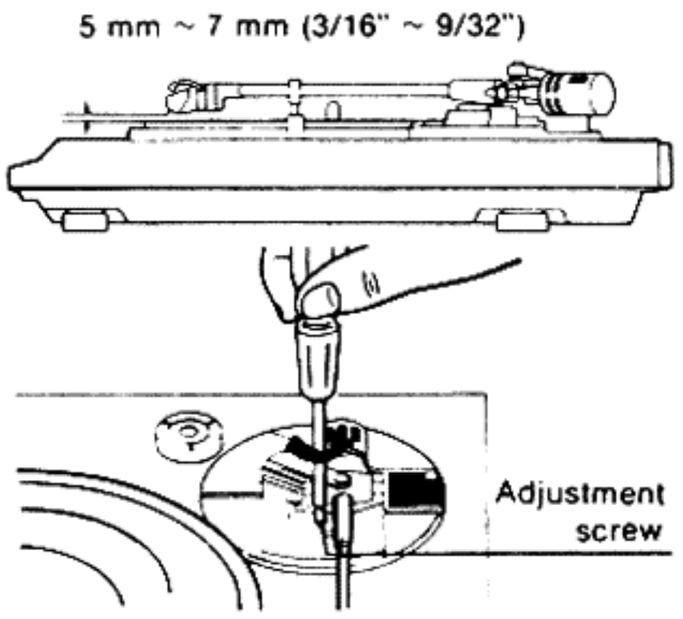
■ CONNECTIONS



■ MEASUREMENTS AND ADJUSTMENTS

ARM-LIFT HEIGHT ADJUSTMENT

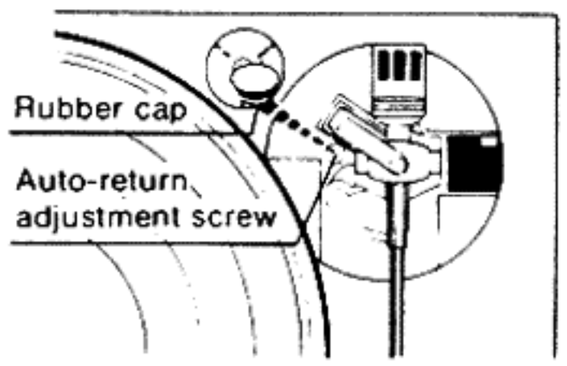
The arm-lift height (distance between the stylus tip and the record surface when the cueing control is at the "▽" position) has been adjusted at the factory to approximately 5 to 7 mm (3/16"—9/32").
If the clearance is too narrow or too wide, turn the adjustment screw clockwise or counterclockwise.
Clockwise rotation
—distance between the record and stylus tip is decreased.
Counterclockwise rotation
—distance between the record and stylus tip is increased.



AUTOMATIC RETURN ADJUSTMENT

1. Clamp the tonearm to the arm rest.
2. Remove the rubber cap.
3. Turn the screw with a screwdriver, clockwise or counter-clockwise as necessary.

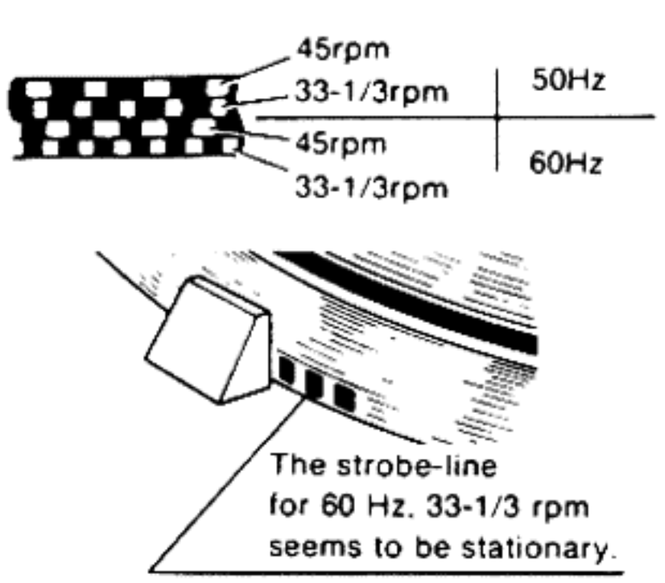
If the tonearm tends to return to the arm rest before the play has finished,
—turn counterclockwise.
If the tonearm fails to return after the final groove,
—turn clockwise.



SPEED ADJUSTMENT (PITCH CONTROL)

There are strobe-lines cut on this turntable platter to indicate correct rotational speed.
If the strobe-line appears to be moving as the turntable rotates, adjust while playing a record.

1. Set the speed selector to the speed to be adjusted.
2. Push the power switch. The strobe-illuminator/pilot lamp will light up and the platter will rotate.
3. Watch the dot pattern on the side of the platter. Turn the pitch control one way or the other until the dots appear to stand still. This is the correct speed.
4. Turning the pitch control in the "+" direction increases the speed.
5. Turning the pitch control in the "—" direction decreases the speed.

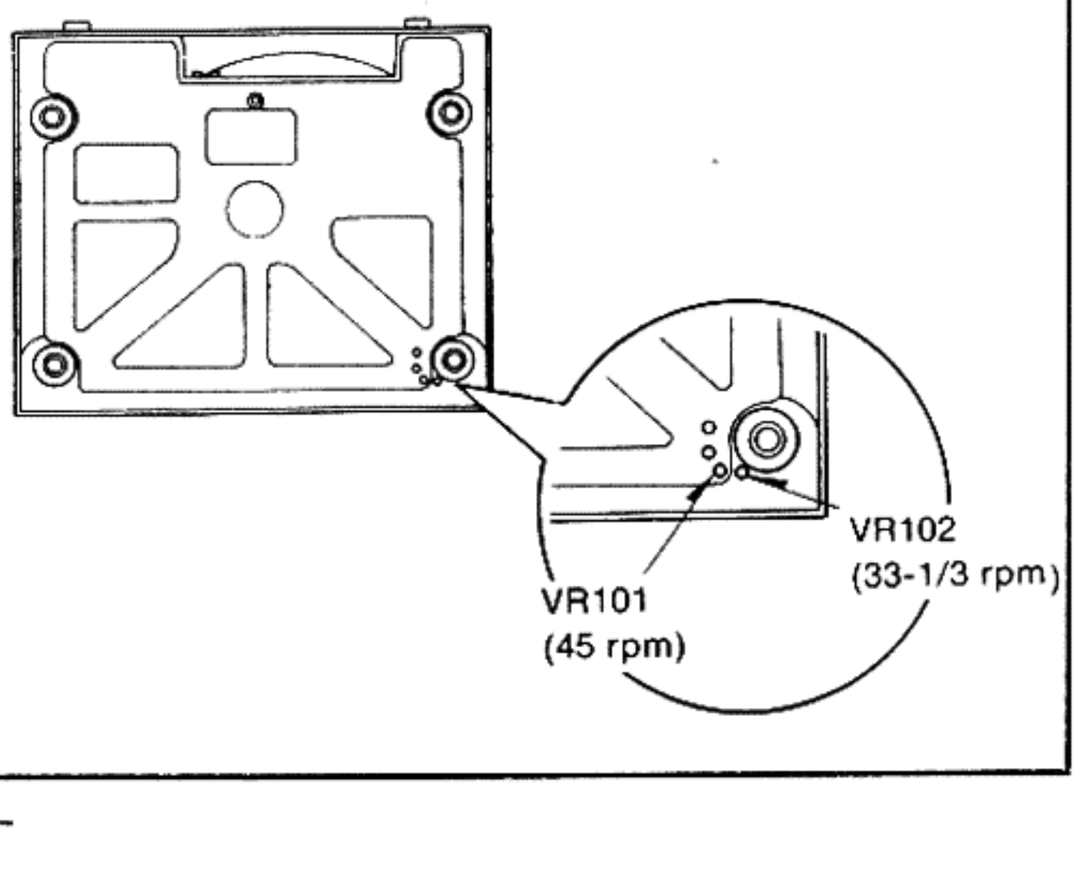


ROTATING SPEED

When the turntable drive/control IC (IC101) or the variable resistors (VR101, 102) are changed, or if the rated rotation is not reached even when the pitch control knob is turned, adjust the rotating speed in the following procedure.

1. Set the speed selector switch to the "45" position.
2. Turn VR101 with a screwdriver from the bottom of the set to the rated rotation (45 rpm) and check the rotation with a strobe while adjusting the speed.
3. Set the speed selector switch to the "33" position.
4. Turn VR102 with a screwdriver from the bottom of the set to the rated rotation (33-1/3 rpm) and check the rotation with a strobe while adjusting the speed.

Note: Be sure to make the adjustment for 45 rpm first.



■ TROUBLESHOOTING

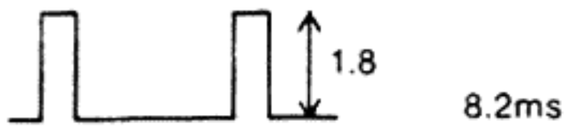
No sound comes out.

→ Check the resistance at output pin plug (left and right channels).

- 0~ a few ohms → Check if shorted circuit at pin plug or lug terminal or connector or cartridge.
- ∞ (open) → Check if opened circuit at pin plug or lug terminal or connector or cartridge.
- 500~600Ω → Check if sequently connected to amplifier or check amplifier.

Strobe LED does not indicate.

→ **Strobe LED drive circuit**
•Waveform of collector of Q201



→ Q201, 202 (Drive transistor)
D201~D207
R201~R205
} defective

Turntable does not rotate.

→ AC power plug is connected?

- No → Connect the AC power plug to an AC wall socket.
- Yes ↓

Belt is set over the turntable capstan?

- No → Set the belt correctly.
- Yes ↓

Power source circuit
1. AC 14V between FC2 terminals ① and ②.
2. DC voltage of regulator IC (IC1)
   ① 12V ② 6V ③ 0V
3. DC voltage at terminal ⑫ of IC101 (3V).

→
T1 (Power transformer)
S1 (Power switch)
D1~D4 (Rectifier diode)
IC1 (Regulator IC)
IC101 (Drive IC)
} defective

↓

Drive circuit
•DC voltage of drive transistor (Q101)

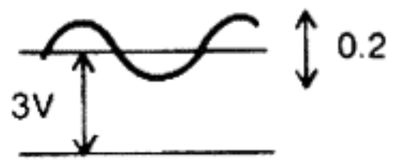
	Base	Collector	Emitter
33 rpm	1.5V	6.3V	0.8V
45 rpm	1.6V	5.2V	0.9V

→
IC101 (Drive IC)
Q101 (Drive transistor)
Motor
R108,109 (Resistor)
} defective

Unstable rotation

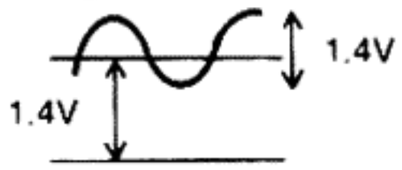
FG amplifier circuit

1. Waveform of terminal ④ of CN101



33 rpm 3.3ms
45 rpm 2.5ms

2. Waveform of terminal ⑤ of IC101



33 rpm 3.3ms
45 rpm 2.5ms

→ Z601 (Magnetic resistor element)
IC101 (Control IC)
R101~R103
C101~C103
Motor
} defective

Control circuit

1. Waveform of terminal ⑧ of IC101

33 rpm 3.3ms
45 rpm 2.5ms

2. Waveform of terminal ⑨ of IC101

33 rpm 3.3ms
45 rpm 2.5ms

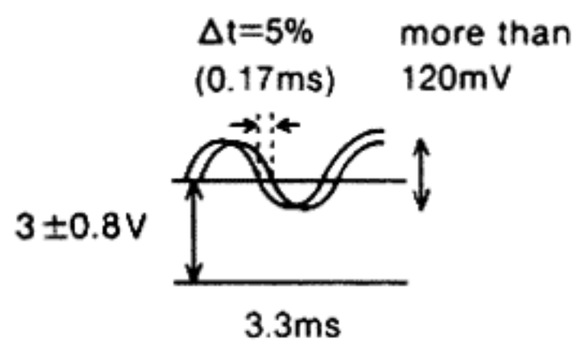
→ IC101 (Control IC) defective

Turntable rotates too fast or does not rotate.

1. Conduction check of CN101 terminal of ④ and ⑤, ① and ④.

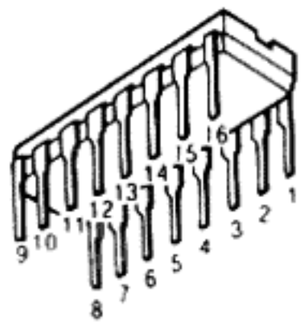
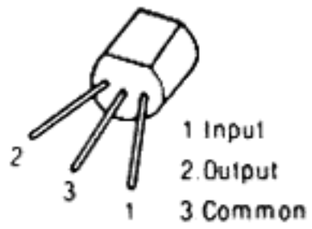
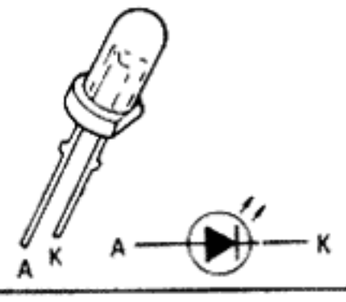
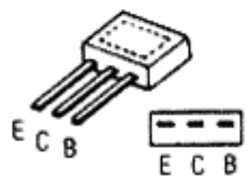
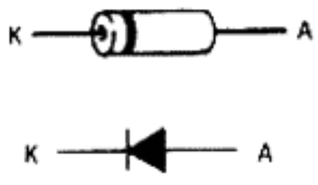
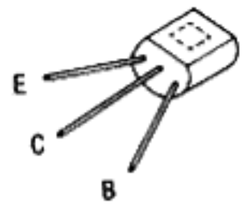
→ If the reading is ∞, then Z601 defective.
If the reading is 1.3kΩ, then motor defective.

1. Waveform of terminal of CN101.



→ Refer to precaution on page 5.

- **Terminal guide of IC's, transistors and diodes**

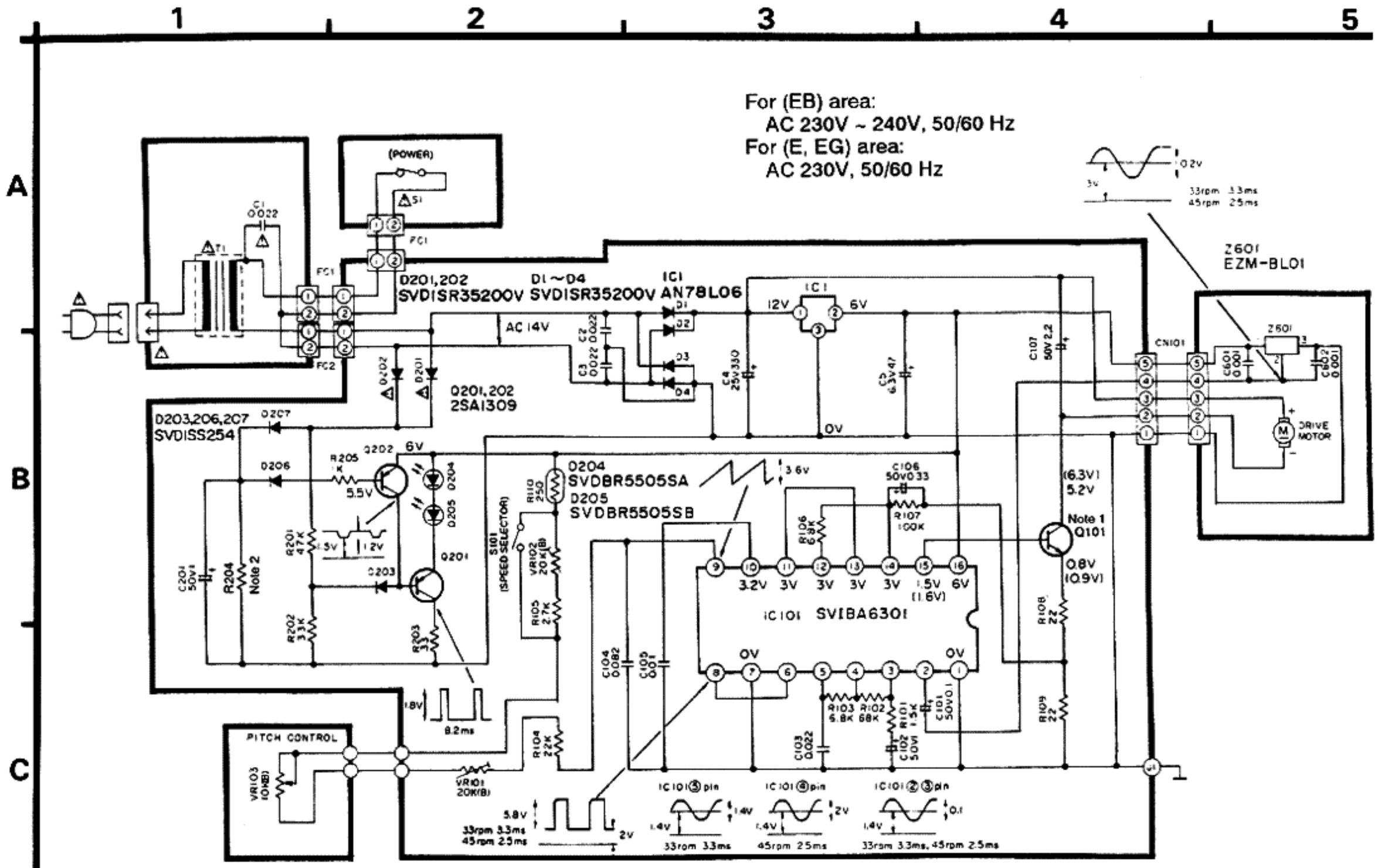
SVIBA6301  	AN78L06  	SVDBR5505SA SVDBR5505SB 
2SD1423 2SA1309  	SVD1SR35200V SVD1SS254  	2SC1383 

Caution!

IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

■ SCHEMATIC DIAGRAM



Notes:

1. S1: Power switch in "on" position.
2. S101: Speed selector switch in "33" position.
3. The values are of the reference voltage for the turntable rotation (33 rpm) of this unit, measured by a DC voltmeter (high impedance) on the basis of chassis. So, some error might be included depending on the internal impedance of the measuring instrument and the unit measured.
   * ( ): voltage in 45 rpm.
4. Important safety notice:
   Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
5. VR101 is the 45 rpm speed adjustment variable resistor.
6. VR102 is the 33-1/3 rpm speed adjustment variable resistor.
7. This schematic diagram may be modified at any time with the development of new technology.

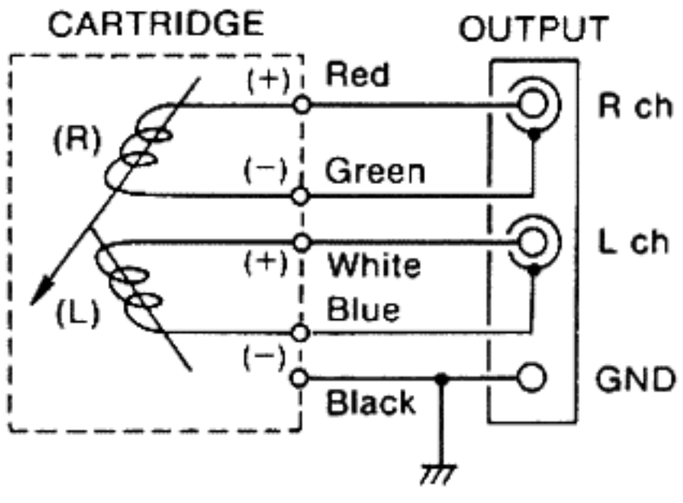
Notes:

Note 1

Ref. No	Areas	
	[E, EG]	[EB]
Q101	2SC1383	2SD1423

Note 2

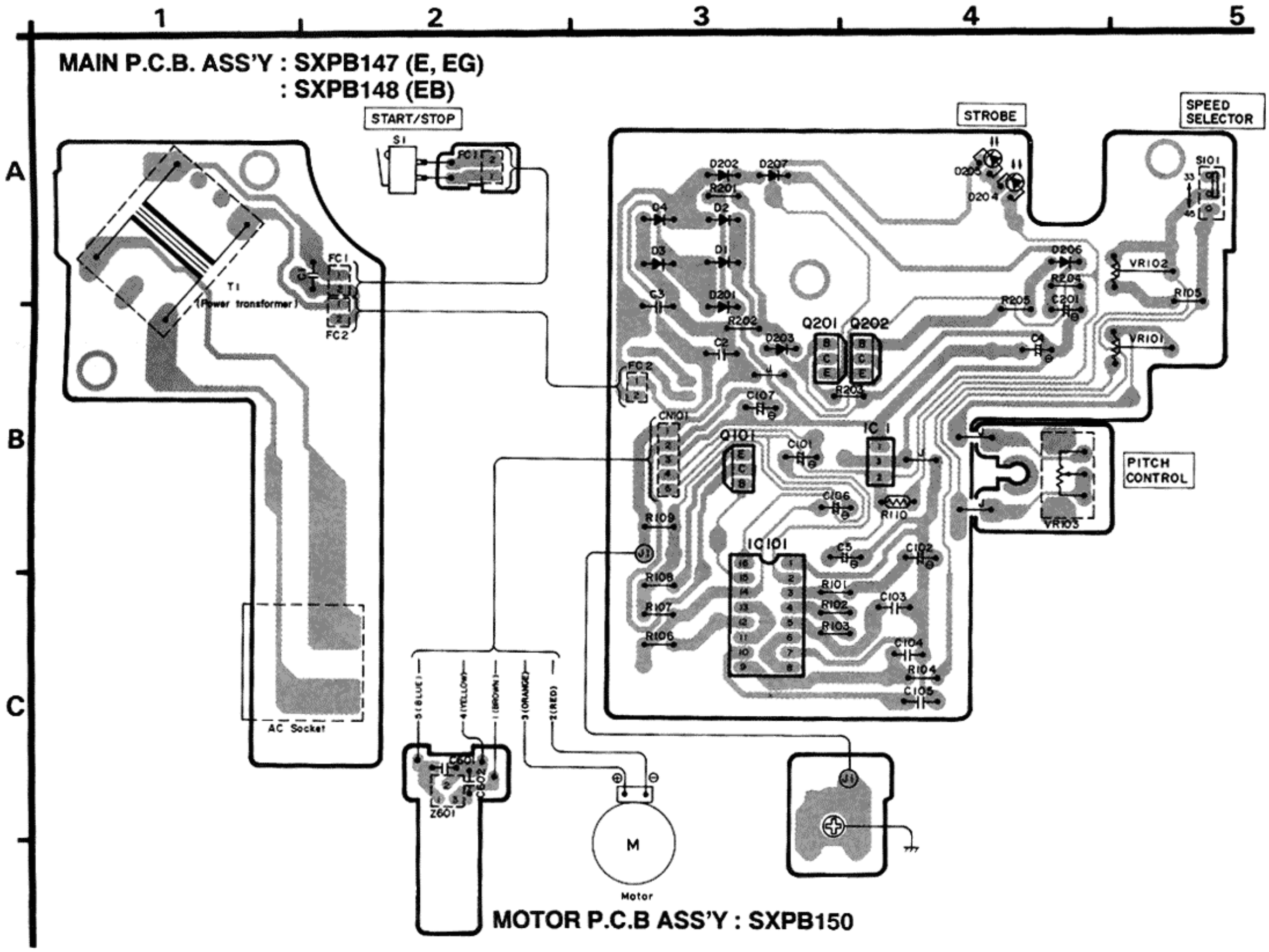
Ref. No	Areas	
	[E, EG]	[EB]
R204	ERDS2TJ332 (3.3K)	ERDS2TJ562 (5.6K)



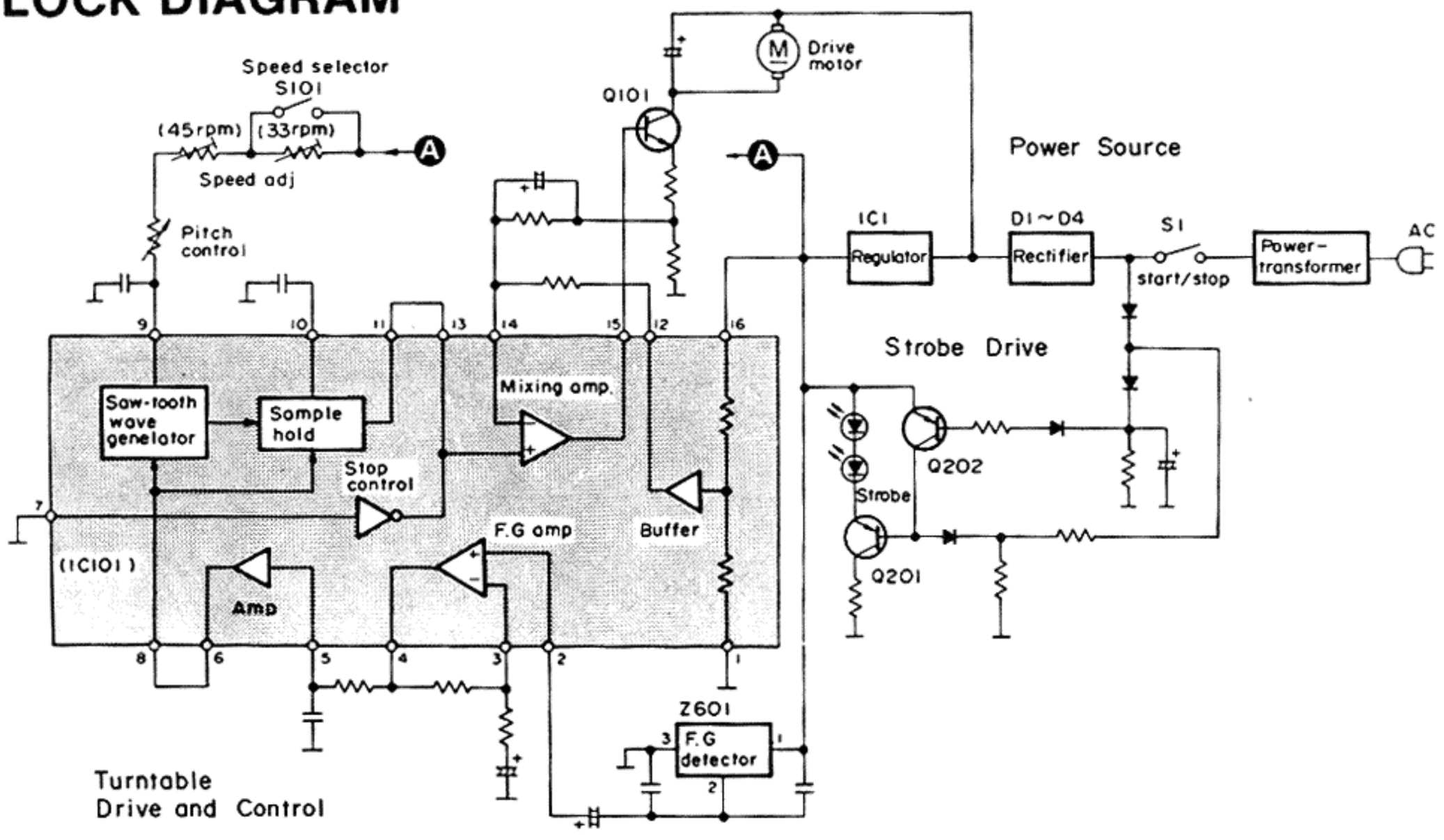
● The supply part number is described alone in the replacement parts.

Ref. No.	Production Part No.	* Supply Part No.
Q101 (E, EG)	2SC1383	2SC1383-QRS
Q101 (EB)	2SD1423	2SD1423QRS
Q201, 202	2SA1309	2SA1309A-R
D1 ~ 4	SVD1SR35200V	SVD1SR35200A
D201, 202	SVD1SR35200V	SVD1SR35200A
D203	SVD1SS254	1SS254TA
D206, 207	SVD1SS254	1SS254TA

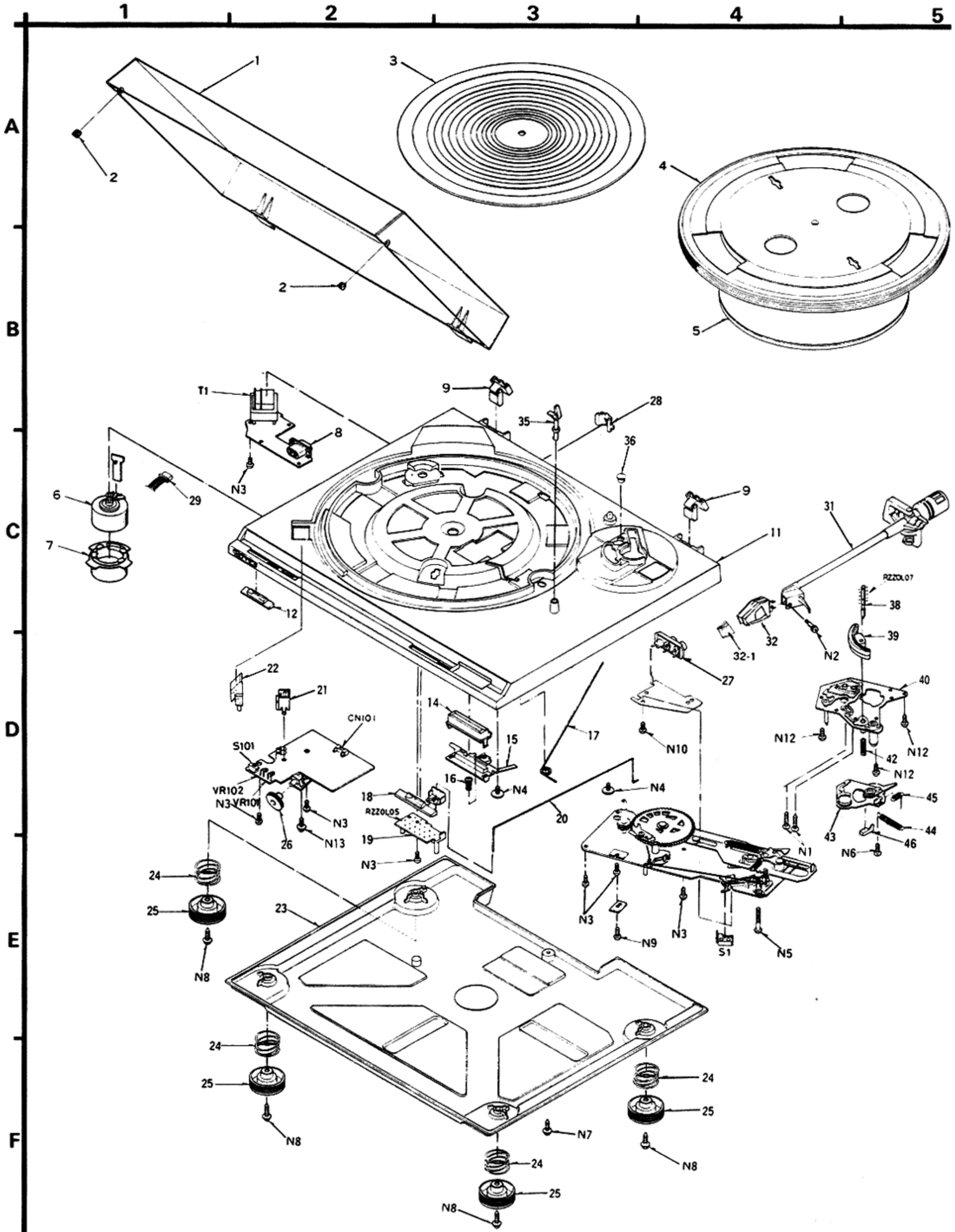
■ CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



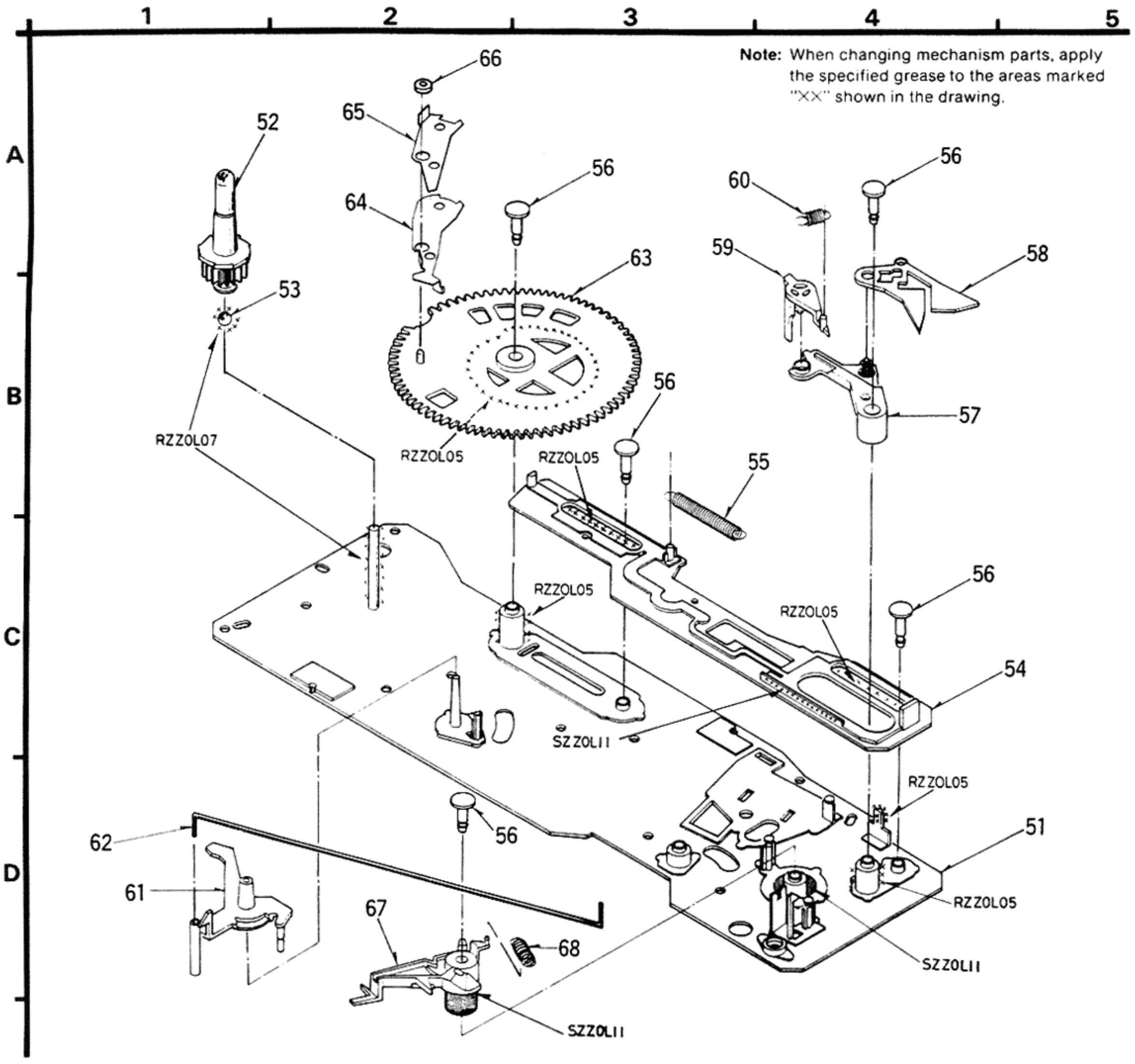
■ BLOCK DIAGRAM



■ EXPLODED VIEW



- **Mechanism parts**



■ REPRACEMEN PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*The "(SF)" mark denotes the standard part.
*<VRD>: indicates parts that are supplied by Video Recorder Division.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC1	AN78L06	IC, REGULATOR	
IC101	SV1BA6301	IC, FG SERVO	

Ref. No.	Part No.	Part Name & Description	Remarks
		TRANSISTOR(S)	
Q101	2SC1383-QRS	TRANSISTOR	(E, EG)
Q101	2SD1423QRS	TRANSISTOR	(EB)
Q201, 202	2SA1309A-R	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
		DIODE(S)	
D1-4	SVD1SR35200A	DIODE	
D201, 202	SVD1SR35200A	DIODE	⚠
D203	1SS254TA	DIODE	
D204	SVDBR5505SA	DIODE	
D205	SVDBR5505SB	DIODE	
D206, 207	1SS254TA	DIODE	
		VARIABLE RESISTOR(S)	
VR101, 102	EVN61AA00B24	VR, SPEED ADJUSTMENT	
VR103	EVJE1AF20B14	VR, PITCH CONTROL	
		THERMISTOR(S)	
R110	ERTD2ZFK251S	THERMISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
		MAGNET RESISTOR ELEMENT(S)	
Z601	EZM-BL01	F. G DETECTOR	
		TRANSFORMER(S)	
T1	RTP114E001	POWER TRANSFORMER	⚠(E, EG)
T1	SLT35KE61E	POWER TRANSFORMER	⚠(EB)
		SWITCH(ES)	
S1	SFDSD72R01	SW, POWER	⚠
S101	SFDSHSW0834	SW, SPEED SELECTOR	
		CONNECTOR(S)	
CN101	EMCS0551ML	CONNECTOR(5P)	

Notes : • **Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)**
• **Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)**

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101	ERDS2TJ152	1/4W 1.5K
R102	ERDS2TJ683	1/4W 68K
R103	ERDS2TJ682T	1/4W 6.8K
R104	ERDS2TJ223	1/4W 22K
R105	ERDS2TJ272T	1/4W 2.7K
R106	ERDS2TJ682T	1/4W 6.8K
R107	ERDS2TJ104	1/4W 100K
R108, 109	ERDS2TJ220T	1/4W 22

Ref. No.	Part No.	Values & Remarks
R201	ERDS2TJ472	1/4W 4.7K
R202	ERDS2TJ332	1/4W 3.3K
R203	ERDS2TJ330	1/4W 33
R204	ERDS2TJ332	1/4W 3.3K (E, EG)
R204	ERDS2TJ562	1/4W 5.6K (EB)
R205	ERDS2TJ102	1/4W 1K
		CAPACITORS
C1	ECQG1223KZ	100V 0.022U ⚠
C2, 3	ECKT1H223ZF	50V 0.022U

Ref. No.	Part No.	Values & Remarks
C4	ECEA1EU331E	25V 330U
C5	ECEA0JU470BV	6.3V 47U
C101	ECQG1H104KZT	50V 0.1U
C102	ECEA1HU010BV	50V 1U
C103	ECQG1H223KZT	50V 0.022U
C104	ECQP2A823JZW	200V 0.082U
C105	ECQG1H103KZT	50V 0.01U
C106	ECEA1HUR33BV	50V 0.33U
C107	ECEA1HKA2R2B	50V 2.2U
C201	ECEA1HU010BV	50V 1U
C601, 602	ECUX1H102MBM	50V 0.001U

Notes: *Important safety notice:
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Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*The "(SF)" mark denotes the standard part.
*<VRD>: indicates parts that are supplied by Video Recorder Division.

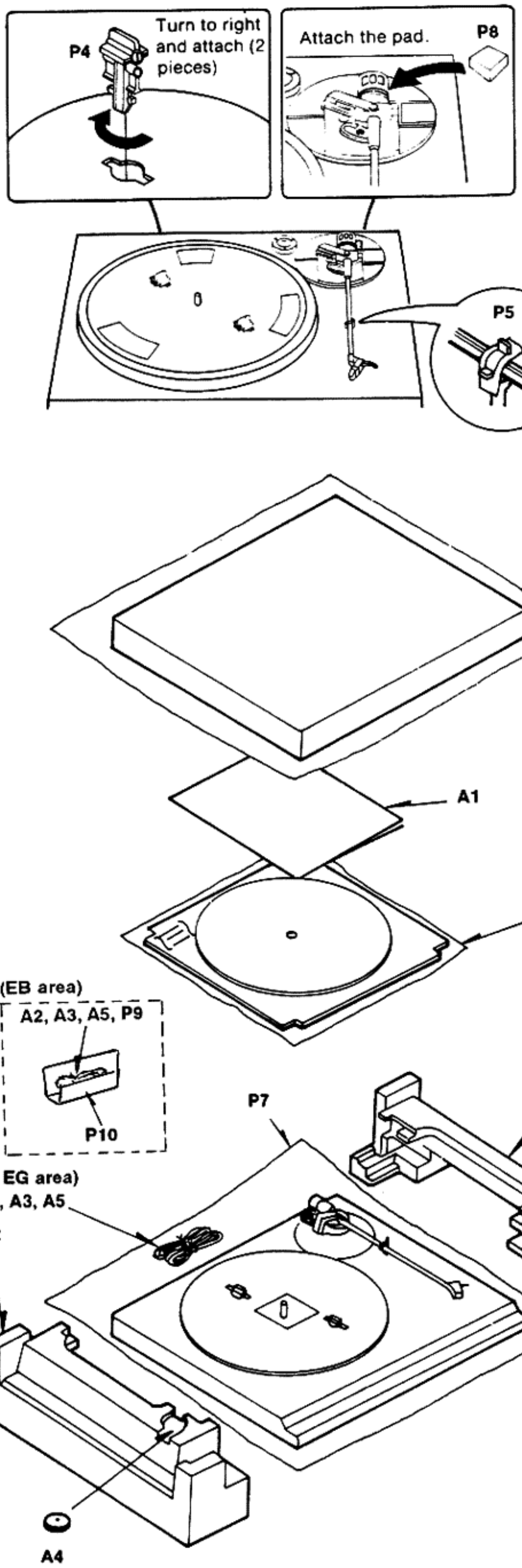
Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	SFADZ15R01E	DUST COVER	
2	SHGB26	RUBBER CUSHION, DUST COVER	
3	SFTGB93M02EM	TURNTABLE MAT	
4	SFTEBD2N01	TURNTABLE	
5	SJY90080-3	BELT	
6	SDMB5E	MOTOR ASS'Y	

Ref. No.	Part No.	Part Name & Description	Remarks
7	SHGB7	RUBBER CUSHION, MOTOR	
8	SFDJHSC0515	AC SOCKET	⚠
9	SBHB7	HINGE	
11	RFKKBD22DE-K	CABINET ASS'Y	(E)
11	RFKKBD22DEBK	CABINET ASS'Y	(EB)
11	RFKKBD22DEGK	CABINET ASS'Y	(EG)
12	SBCB70-0C	KNOB, SPEED SELECTOR	
14	SBCB30-0C	KNOB, STOP	
15	SFUMBD2N01-1	BASE, STOP KNOB	

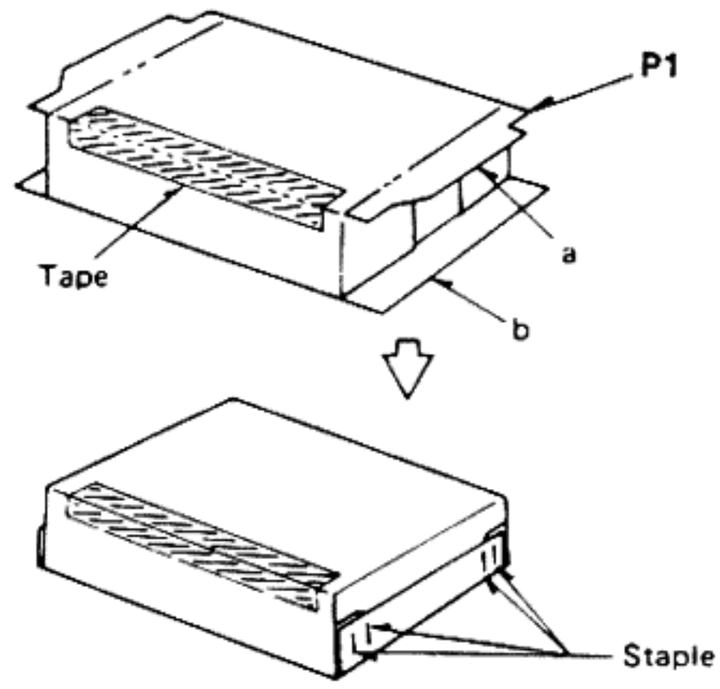
Ref. No.	Part No.	Part Name & Description	Remarks
16	SFQHZ15R01	SPRING	
17	SFUZZ15R01	ROD, STOP KNOB	
18	SBCB61-0C	KNOB, CUEING	
19	SKMB140	BRACKET, CUEING KNOB	
20	STZB4	ROD, CUEING KNOB	
21	SFUMBD2N06	HOLDER, LED	
22	SFUMBD2N07	STROBE	
23	RFKJBD20DE-K	BOTTOM COVER ASS'Y	(E)
23	RFKJBD20DEBK	BOTTOM COVER ASS'Y	(EB, EG)
24	SUSB38	SPRING, INSULATOR	
25	SKLB3	INSULATOR	
26	SBCB80-0C	KNOB, SPEED ADJUSTER	
27	SFDJBD2N03	JACK, OUTPUT	
28	SKMB160-0K	COVER	
29	SWKBB42052	CONNECTOR ASS'Y(5P)	
31	SFAB14A	TONEARM ASS'Y	
32	RFE0022	CARTRIDGE	
32-1	RMJ0005	PROTECTOR	
35	SHRB14	TONEARM REST	
36	SFGK171F01	CAP	
38	SFXJBD2N51	SHAFT, ARM LIFT	
39	SFUMBD2N51	ARM LIFT	
40	SFUPBD2N51E	ARM BASE	
42	SUSB12	SPRING	
43	SFUPBD2N52E	PLATE, PICK-UP FIXING	
44	SFQHZ15R55	SPRING	
45	SFQHZ15R61	SPRING	
46	SFUMZ15R57	SPRING PIN	
51	SUKB4E	MECHANISM PLATE	
52	SDWB1A	TURNTABLE SHAFT	
53	SFYB5-32	BALL	
54	SFUBZ15R51	PLATE, DRIVE	
55	SFQHZ15R64	SPRING, DRIVE PLATE	
56	SFUMZ15R56	PIN	
57	SFUMZ15R54	SWITCH LEVER(A)	
58	SFUMBD2N52	SWITCH LEVER(B)	
59	SFUMZ15R59	SWITCH LEVER(C)	
60	SFQHZ15R62	SPRING	
61	SFUMZ15R52	LEVER, ACTUATING	
62	SFQSZ15R51	ROD, ACTUATING	
63	SFUGZ15R51-3	MAIN GEAR	
64	SUWB17-1	RINK(A), MAIN GEAR	
65	SFURZ15R51	RINK(B), MAIN GEAR	
66	SHRB106	WASHER	
67	SHRB11-1	CAM, CUEING	
68	SFQHZ15R63	SPRING	
		SCREWS	
N1	SNSB1	SCREW	
N2	SFPEV0Q601	SCREW	
N3	XTB3+10G	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
N4	SFXGQ06N01	SCREW	
N5	XTB3+30J	SCREW	
N6	XYC3+CG10	SCREW	
N7	XTW3+14Q	SCREW	
N8	SNSB4-1	SCREW	
N9	XYE3+EJ8	SCREW	
N10	XTB3+16J	SCREW	
N12	XTB3+8G	SCREW	
N13	XTW3+10Q	SCREW	
		PACKING MATERIALS	
P1	RPG2600	PACKING CASE	(E, EG)
P1	RPG2601	PACKING CASE	(EB)
P2	SPSB4	PAD, LEFT	
P3	SPSB5	PAD, RIGHT	
P4	SPEB3	CLAMPER, TURNTABLE	
P5	SPEB5	CLAMPER, TONEARM	
P6	SPPB1-4	POLYETHYLENE BAG, DUST COVER	
P7	XZB60X65A01X	POLYETHYLENE BAG, UNIT	
P8	SPEB4	PAD, TONEARM WEIGHT	
P9	XZB10X30C03	POLYETHYLENE BAG, CORD	(EB)
P10	RPQ0353	PAD, CORD	(EB)
		ACCESSORIES	
A1	RFKSBD22DE-K	INST. MANUAL ASS'Y	(E)
A1	RFKSBD22DEBK	INST. MANUAL ASS'Y	(EB)
A1	RFKSBD22DEGK	INST. MANUAL ASS'Y	(EG)
A2	SFDHBD2N01	STEREO CONNECTION CABLE	
A3	SJPB7M	GROUND WIRE	
A4	SFWE212-01	45-rpm ADAPTOR	
A5	RJA0019-2K	AC POWER SUPPLY CORD	⚠(SF)(E, EG)
A5	VJA0733	AC POWER SUPPLY CORD	⚠(SF)(EB)<VRD>
A7	SFTGB93M02EM	TURNTABLE MAT	
		GREASE	
SA1	RZ20L05	DYNAMIC GREASE	
SA2	RZ20L07	MORITON GREASE	
SA3	SZ20L11	SILICON OIL	

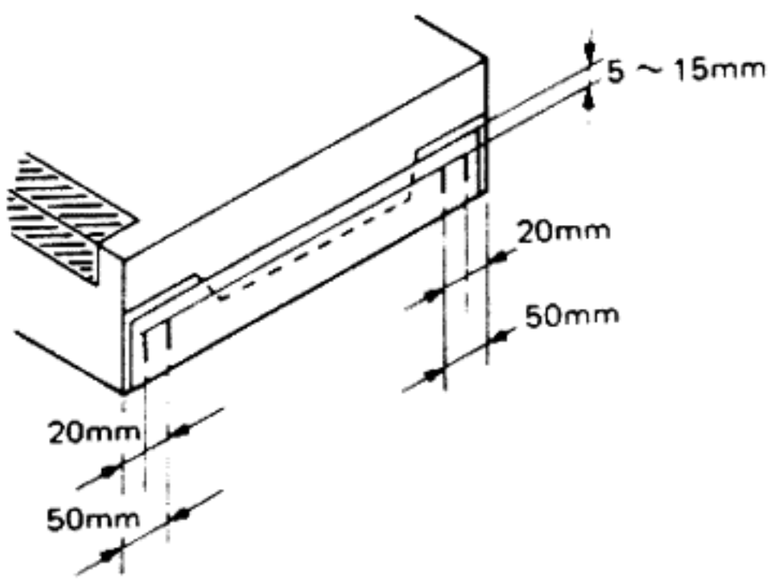
■ PACKING



1. Place the unit (with cushions attached) as illustrated.
2. Fold the flaps according to the line marks.
3. Seal the top with adhesive tape.
   - Use gum tape or adhesive cloth tape of 50mm wide at least.
4. For the edges, first fold the flap "a" and then flap "b", and staple. Remember to staple only flap "b". (Use 15 or 16mm staple.)



- Stapling positions are shown below.



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